

Abstract of the Disclosure

In accordance with the present invention, sound absorbing material is placed in close proximity to an acoustic horn to assist the horn in more effectively and distinctly placing the optimal SPL or major lobe in a desired location, thereby providing an improved sound field. In a first preferred embodiment, the sound absorbing material is arranged at the mouth just after or behind the horn. In a second preferred embodiment, the sound absorbing material is arranged at the driver end of the horn. Finally, in a third preferred embodiment of this invention, the sound absorbing material is disposed between the throat and the mount of the horn. Such an arrangement shapes the polar pattern to more closely resemble an acoustic wedge allowing improved placement of sound energy and for multiple acoustic sources to be arrayed together, thereby minimizing interference between or among the sources. When used in conjunction with multiple acoustic sources, this invention enables the acoustic sources to more closely resemble or act as one by minimizing interference. This arrangement also allows the user to more accurately and precisely predict how and where the optional SPL or major lobe will be delivered. As a practical benefit, this results in improved acoustically designed venues, i.e., movie theaters, auditoriums, gymnasiums, arenas, stadiums (indoor and outdoor) and the like, having better sound quality and consistency for the audience.